

## CHAPTER 10: ELEMENT H. – PERFORMANCE

### 10.1 GOALS WITH PERFORMANCE CRITERIA FOR DEER CREEK WATERSHED

As outlined in Chapter 9 on interim milestones, below is a list of goals with performance criteria to be measured over the next 5 years to track our progress towards achieving each goal:

**Goal:** *Capture the first 1.14 inch of rainfall in rainscaping projects to reduce primary and secondary pollutants of concern. See Table 4-8 on page 4-11 for the estimated number of rainscaping BMPs to be installed in 5-year periods and the minimum estimated load reductions for E. coli, sediment (TSS) and nutrients (TP & TN).*

#### Performance Criteria

1. A database of names and contact information for all residential landowners who live in each subwatershed will be completed by April 2021.
2. A rainscaping cost-share application review and evaluation session will have been scheduled and completed annually from 2021-2025.
3. At least twenty rainscaping projects will have been ground-truthed annually from 2021-2025 for quality assurance and to confirm installation.
4. Five to ten additional rainscaping signs will be distributed and displayed by willing homeowners annually from 2021-2025.
5. At least one rainscaping training session for professionals will be conducted each year from 2021-2025.
6. Ten to fifteen Orientation/Training sessions will have been completed for the Rainscaping Cost Share Program by 2025.
7. At least 760 projects will be installed by Dec. 31, 2040.

**Goal:** *At least 9 tons of trash, plastics, leaf litter, and/or organic debris removed or prevented from entering Deer Creek annually.*

#### Performance Criteria

1. At least five volunteer trash clean ups in the watershed will have been conducted by 2025.
2. At least one “water goat” trash collector will have been installed in Deer Creek or one of its tributaries by December 2021.
3. At least one municipality in the watershed will have completed a model leaf litter reduction outreach program by 2025.

**Goal:** *Reach state water quality criteria for E. coli levels in Deer Creek by 2040.*

#### Performance Criteria

1. Identify septic systems in the Deer Creek Watershed by December 2022.
2. Design and pilot an inspection, maintenance, and replacement cost-share program for septic systems by December 2023.
3. Target market septic system cost-share program to at least 20 streamside landowners with septic systems by March 2024.

4. At least four articles on the importance of picking up pet waste will have appeared in the Deer Creek Watershed Alliance email newsletter by December 2025.
5. Eliminate 100% of combined sewer overflows by 2030, 85% of sanitary sewer overflows by 2023 and 100% of sanitary sewer overflows by 2033 to reduce E.coli and nutrient loads in streams (MSD). See Appendix 9A: Implementation Plan for Black Creek and Deer Creek for details.
6. Detect and eliminate illicit discharges. See MSD Phase II NPDES.

**Goal:** *Reach state water quality criteria for chloride levels in Deer Creek by 2050.*

**Performance Criteria**

1. Salt usage data will be collected and updated annually.
2. The content for a workshop on road salt applicators and maintenance crews on private developments will have been developed by February 2023.
3. A training workshop for road salt applicators and maintenance crews on private developments will have been implemented by September 2023.
4. At least 5 of the municipalities in the watershed will be encouraged to convert to brining through training workshop educational efforts every 5 years.
5. At least five articles on salt alternatives and other de-icing tips will have appeared in the Deer Creek Watershed Alliance email newsletter by December 2025.
6. A TMDL for chloride for Black Creek and Deer Creek will be approved by EPA by December 2025.

**Goal:** *At least 2000 linear feet or 10 acres of riparian corridor restored and appropriately landscaped to reduce impacts on erosion, sedimentation, and creek widening by 2040.*

**Performance Criteria**

1. Phase I and remaining phases of Deer Creek Preserve with trail along riparian corridor in Ladue will have been implemented by June 2023.
2. The purchase and set-aside of development rights for the Brentwood wetland property at Brentwood Blvd. and Marshall Ave. will have been completed by June 2023.
3. A planting plan design for a wetland arboretum for the Brentwood wetland property will have been completed by March 2024.
4. The planting plan will have been implemented for the Brentwood wetland property by December 2024.
5. At least ten invasive species removal efforts in riparian corridors will have been completed by December 2025.
6. At least five tree planting projects will have been completed by December 2025.
7. At least five invasive species removal training sessions will have been completed by December 2025.

**Goal:** *Finalize EPA accepted watershed plan updates in 2022 and in 2027*

**Performance Criteria**

1. The first draft of the 2022 updated watershed plan will have been submitted to MoDNR by January 2021.
2. The second draft of the 2022 updated watershed plan will have been submitted to MoDNR by December 2021.
3. The final draft of the 2022 updated watershed plan will have been submitted to MoDNR by July 2022.

4. Acceptance and use of the updated 2022 Deer Creek Watershed Plan will have been gained by at least three municipalities in the watershed by December of 2023.
5. The first draft of the 2027 updated watershed plan will have been submitted to MoDNR by July 2026.
6. The second draft of the 2027 updated watershed plan will have been submitted to MoDNR by December 2026.
7. The final draft of the 2027 updated watershed plan will have been submitted to MoDNR by July 2027.
8. Acceptance and use of the updated 2027 Deer Creek Watershed Plan will have been gained by at least three municipalities in the watershed by December of 2028.
9. Modeled load reduction data for installed rainscaping projects will have been submitted to MoDNR annually in October on an ongoing basis.
10. The Deer Creek Technical Advisory Group, Deer Creek Steering Committee, and Deer Creek Community Leaders Task Force will have met annually on an ongoing basis.